

Ladies To Provide Entertainment At September 8 PPRAA Meeting

It will be "ladies' night" at the September 8 meeting of the PPRAA--at least they will be in charge of the program for the evening and PPRAA Associate member Naudell White, in charge, has promised a fine evening of entertainment for this "first of its kind" for the PPRAA.

What has been planned by the SWOOPS (Suffering Wives of Operators), PUWs (Patient, Understanding Wives) and the female Regular and Associate members

of the club? The main feature will be a talk on "Communications of the Future" by Ina Geyer, Public Relations representative of the local Mountain Bell, illustrated by a series of colored slides. She is the person who made the recent tour of the local Mountain Bell facilities by the PPRAA such a pleasant one.

The talk will start at 7:30 p. m. "on the dot," so be sure to be on time for this meeting. The usual business meeting will follow the talk.

The meeting, as usual, will be in the Security East Savings Building, East Platte at Union Boulevard. The doors will be open at 6:30 for those who want to arrive early and have some eyeball QSOs prior to the start of the meeting.

Another feature of the meeting will be refreshments furnished by Rosie Lewis, WAØMNL, PPRAA President to celebrate the 25th wedding anniversary of Rosie and her OM, Eldon, WAØERA.

Among the other business of the evening will be a report of the nominating committee on candidates for the four vacancies on the Board of Directors to be filled at the October 13 meeting and a report by George Kowalski, WØGCH, or Bill King, WØLKD, on the communications furnished for the Pikes Peak Marathon August 15.

This promises to be one of the "feature" meetings of the year, so plan not to be one of those unfortunate persons who misses it!

New Mexico Hamvention September 17, 18, 19

The Amateur Radio Clubs of New Mexico will sponsor the New Mexico "Hamvention 1971" on September 17, 18 and 19 at the Sheraton Western Skies Motor Hotel, East Highway 66, Albuquerque, N. M.

Friday, the 17th, there will be registration, tours, movies--"Hams Wide World," "Eye Bank Movie"--VHF/-FM 2 meter slide presentation on the New Mexico Repeater Systems, Laser communications demonstration and session, SSB session.

There will be a Happy Hour from 5:30 to 6:30 p. m. and a "Dutch Treat" buffet at 6:30.

Saturday, the 18th, there will be a traffic breakfast, more tours, an antenna theory symposium (Dr. Ralph Partridge of Los Alamos Scientific Labs.), ARPSC/AREC, RACES, a DX luncheon, ladies luncheon with a fashion show by Rhodes Fashion Center of Al-

October 13 Date Of PPRAA Annual Meet

The October meeting of the PPRAA, on Wednesday, October 13, will be the "annual meeting" of the club. This means that this will be the meeting at which four Directors will be elected to fill the vacancies which occur at that time. Following this election, the four officers of the club--President, Vice President, Secretary and Treasurer--for 1972 will be elected from the members of the Board.

For those members of the PPRAA who may have joined since the last election and those who may not be aware of the election and term of office of the Directors and Officers of the club, as set forth in the PPRAA By-Laws, the following explanation may be in order.

The Board of Directors of the PPRAA consists of eight members, each of whom is elected for a two-year term. However, four of these directors are elected one year for the two year term, the other four are elected on an alternate year.

Candidates for the four vacancies on the Board each year are selected by a nominating committee selected by the President of the club. Selectees are announced the month prior to the annual

(Continued on Page 3)

PPRAA Code, Theory Classes Start Again On September 14 And 16

"Summer is over" for two of the busiest members of the PPRAA--John Summers Sr., WAØHHN, and Elmer Schladoweiler, WAØWXY, for they will resume the code and theory classes this month which closed for the summer the last week in May.

John will resume his high speed code classes on Tuesday, September 14 and Elmer will start a new series of novice code and basic theory sessions Thursday, September 16.

As in the past, John's classes will meet each Tuesday evening, starting at 7 o'clock. Elmer's weekly sessions will again be each Thursday evening, also starting at 7 o'clock.

Both series of classes will again be held in the communications room of the Civil Defense Center, located in the basement of the Colorado Springs Police Station, 224 E. Kiowa, at the corner of Kiowa and Weber Streets.

"We had a good eight months of classes prior to closing down for the summer months the last of May," said Elmer. "Several students received their tickets and some were pending as the classes were closed. I hope that starting on the 16th we can provide the means for more interested persons to prepare themselves for their 'bout with the FCC.'"

Those who attended the high speed code classes on Tuesday nights found them very helpful in improving their

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Three Springs Hams In Simulated 747 Crash Exercise

PPRAA members George Kowalski, WØGCH, and Bill King, WØLKD, and Bob Bowers, WAØMQE, were among the many Colorado Amateur Radio operators who participated in a simulated emergency surrounding a simulated crash of a 747 aircraft west of Denver Saturday, August 21.

The simulated emergency, staged by the State Civil Defense and the Federal Aviation Agency (FAA) was a reenactment of what might have been done had the same action been taken at the time the plane with the Wichita State Football team crashed in the mountains near Denver last year.

All of the Search and Rescue organizations in Colorado, including the El Paso Search and Rescue Group which put out the emergency call to George at 5:15 a. m. Saturday, participated.

"At least 50 per cent of the communications for the affair was furnished by amateur radio," George explained. "A total of about 500 persons participated in the exercise, including some 100 Boy

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ZERO BEAT

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PPRAA meets the second Wednesday of each month at 7:30 pm.

EDITORIAL

Two Meetings You Should Plan To Attend

Two important PPRAA meetings are "in the offing." The first is September 8, when the SWOOPS (Suffering Wives of Operators) or PUW (Patient Understanding Wives)--whichever they prefer to be called--will be hostesses for the meeting to provide what they have promised will be a "most enjoyable evening." Our President, Rosie Lewis, WAØMNL, and her OM Eldon, WAØERA, will also be celebrating their 25th wedding anniversary and Rosie has said she will furnish the refreshments.

Since this is the first time the "distant side" of the club has offered to take over a program, you won't want to miss their entertainment or Rosie's refreshments. Better plan to attend to see what's in store for this meeting.

The second meeting, on October 13, is most important since what will happen then will have a more lasting effect on the conduct of the PPRAA. It is the date of the annual meeting at which the elections will be held to fill the four vacancies on the Board of Directors

and to elect the four officers--President, Vice President, Secretary and Treasurer--on whose shoulders will fall the responsibility for the activities and program of the club for the following 12 months.

It should be very obvious to every member of the PPRAA that only through the cooperative efforts of the members and the best qualified directors and officers can the PPRAA continue to function as one of the most progressive clubs in the ARRL Rocky Mountain Division, as it has in the past.

It is, therefore, the duty of every voting member of the club to see that not only are the persons he or she feels are best qualified to serve as directors and/or officers but that he or she also should plan to attend the October meeting to express confidence in the candidates by voting.

Study the list of candidates for the Board of Director vacancies selected by the nominating committee--listed in this issue of Zero Beat--they will also

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Rosemarie Lewis	WAØMNL
2018 W. Uintah 80904	632-572

VICE PRESIDENT

George Kowalski	WØGCH
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SECRETARY

Oakley Stockton	KØROL
2023 Essex Lane 80909	596-1395

TREASURER

John Kester	WAØLVL
819 Dunston St. 80907	635-2228

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Dean Jaynes	WAØPJH
116 N. 24th St. 80904	634-7097

Bill King	WØLKD
2916 N. Institute 80907	634-4751

be announced at the September 8 meeting. If you find that any person or persons you feel best qualified to direct the activities of the PPRAA is missing from the list, it is not only your privilege--it is your duty--to see that his or her name is added to the list of the candidates to be voted on October 13.

The method of accomplishing such additional nominations is contained in an article elsewhere in this issue of Zero Beat. Note that any such additional nominations must be in the hands of the President prior to September 23, so you must act promptly.

If you are really interested in the PPRAA and its future--and you must be or you wouldn't be a member--you must make every effort to see that those you think are best qualified are nominated and must make every effort to attend the October 13 meeting to cast your vote for those you think are best qualified to direct the PPRAA.

-o-

Thought this month (on Page 6) we'd share with Zero Beat readers a picture of our operations in the Philippines almost a quarter century ago.

If any of the PPRAA members have a similar picture they'd like to "share," how about loaning it to Zero Beat so it can be reproduced, including some information of operations at the time?

-o-

Fox Charlie Charlie was good to us and renewed our license for another 5 years--were "license-less" for 10 days though, our ticket expired August 3, the new one was dated August 13--closest we've come to being without a license since our first one as W7HUI in 1937!

---Frank, WØHWH

This May Also Save You A 'Last Minute Sweat'

Good proof that even the clubs with whom we exchange publications read Zero Beat thoroughly came in a note from W4TE, J. F. Bardeleben, advertising manager of Auto Call, published at McLean, Va., by the Foundation for Amateur Radio, Inc.

Noting our editorial comment in the August Zero Beat regarding our almost letting our license expiration slip up on us, W4TE clipped out the comment and returned it with a note saying:

"Here is the answer to such problems. This service we have given for over seven years now."

The service he refers to is a License Expiration Notice Service, an explanation of which (appearing in Auto Call) is as follows:

"Don't let your license expire because you forgot the renewal date! Send a self-addressed, stamped, post card to the License Expiration Notice

Service. At the top left edge write the date (month and year) when you want the card to be mailed back to you. Write anything you want to say to yourself on the card. The card will be mailed on the date indicated.

"This is a volunteer service and the Foundation cannot accept any responsibility for its operation. However, it has been working efficiently for eight years. If for any reason the service should be discontinued, your card will be returned to you. Send your card to:

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"Joan Machinchick - K3KBI

"1023 Lake Claire Drive

"Annapolis, Maryland 21401"

Thanks, W4TE, for reminding us of this service--perhaps some of our Zero Beat readers will wish to take advantage of this to assure that they don't repeat our shortcoming and find themselves sweating out the FCC reply.



ROSIE'S REPORTINGS

By
Rosemarie Lewis
WAØMNL

A "doH of a doll!" Florence Kaplicky, PPRAA Associate member, entered the doll-making contest of the Eagles Lodge. The dolls entered were to be made from scrap materials only. She first made a clown, then a pixie, then one evening while watching TV with Nick Jeff she got the inspiration to make a scrub woman doll (Nick says he definitely was not the inspiration, though). Her doll was patterned after Carol Burnett, the TV star as a scrub woman. The doll had tiny button star-shaped eyes, old scrub boots and was complete with mop and pail. In local judging, Florence was given first prize for the most original and unique doll. The doll was entered in state competition and was judged among 50 dolls to be the best and Florence got the state first prize. The doll has been sent to Carol Burnett.

-rr-

The month of August found many of the club members on vacations and on other activities. The David Hamula family was involved in the ice reviews at the Broadmoor. The Dale Greene celebrated an anniversary. Bonnie Bondurant and XYL made a trip to Oregon to visit friends there.

Liz DonCarlos and children made a trip back East and Doc Cornell visited W1-land. The Eldon Lewis' spent 3 days in Las Vegas where they were the recipients of a gift to spend some time in the city celebrating the 25th anniversary of their wedding--for richer for poorer--where they had a very good time.

The John Summers Sr. family made a trek to New Mexico where they joined their daughter-in-law's family to spend some time together. More than 20 persons were in the group--family tents were set up with a 'cook's' tent. The group digs for Indian archives. This is the third year the summers have joined the group--some of the items are given to the University of Texas. John Jr. and XYL are in New Zealand for John's tour with the U. S. Navy. John Sr. took his rig along for the trip, threw up a dipole and the group talked with John Jr. (ZL3HQ) every night--and what a thrill it was for all concerned!

The Charles Lucas family spent some time camping at Buena Vista with members of their families for two weeks. All of the group have campers and quite a group enjoyed the outing.

-rr-

Bob Collier, WØBUI, underwent leg surgery in June and is having a rough time of it. Get well, Bob, and if there

Code, Theory Classes Start Sept. 14 & 16

(Continued from Page 1)
code speed for CW operation and for a try at a higher class of license according to John.

Rosie Lewis, WAØMNL, PPRAA President, praised John and Elmer for again taking on the task of conducting the weekly classes.

"Both of these PPRAA members have done a great job in the past and I am sure those who attend these classes will find them very profitable.

"And, of course we of the PPRAA wish to thank Charles Willoughby, Civil

Defense Director, for again permitting us to use the Civil Defense facilities to conduct the classes. The cooperation between Civil Defense and the PPRAA has been outstanding for some time and I am sure will continue in the future."

Both John and Elmer have stated that there is no need to get in touch with either of them in advance to enroll in the classes. "Just show up for the high speed code on September 14 at 7 and for the novice class September 16 at 7--we'll take care of the enrollment at that time," they stated.

October 13 Date Of Annual Meeting

(Continued from Page 1)

meeting--and those names appear in this issue of Zero Beat.

Should any member or members wish to nominate additional candidates, they must submit such nominations to the President, bearing the signatures of at least three voting members in good standing. Such additional nominations must be in the hands of the PPRAA President more than 20 days prior to the annual meeting. This means that this year any such nominations must be in the hands of the President not later than September 23.

In case there is doubt in any member's mind about who is a voting member--each full or regular member (any person who is the holder of a valid renewable radio operator license issued by the FCC) is a voting member and is entitled to hold any office in the PPRAA. Novice members are also entitled to vote but are not entitled to hold any office in the PPRAA. Associate members can neither vote or hold office.

Since each of the four officers of the PPRAA--President, Vice President,

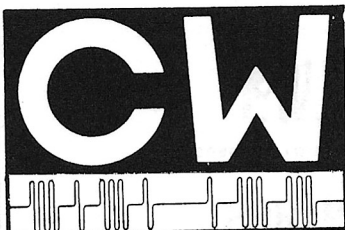
Secretary and Treasurer--each of whom is elected for a one year term, must be members of the Board of Directors, the election of these officers follows the election of the four Directors. Nominations for the four officers are made from the floor with such nominations being made from the eight Directors of the club.

-o-o-o-o-

"If you're stumped for a snack to feed unexpected guests, try a recipe which appeared in 'The Horse's Mouth,' a newspaper published by the Army Community Service Volunteer Association at Fort Riley, Kansas.

"Elephant Stew: Take one large elephant. Kill, clean and cut into small cubes. This will take about 2 months. Put in large kettles and simmer over kerosene heat at 465 degrees for 14 weeks. Make gravy to cover. This will feed 3,685 people. If more meat is needed, add two rabbits. But use only if necessary, as few people care for hare in their stew."

From "Soldier" - Official
U. S. Army magazine



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(Continued on Page 4)

PRESIDENT'S NEWS

The list of candidates nominated to fill the four vacancies on the Board of Directors, to be voted on next month, is listed in this issue of Zero Beat, so you might check it. If the name of some persons you'd like to see considered for a PPRAA Directorship does not appear on the list, you will have time to submit the name or names of your choice. The information on how to do it is included in this issue.

I have appreciated being President of your PPRAA but do not wish to be considered for another term. One hears a lot about TV "reruns" (I call them rundones) and if reelected, that's what I'd be--"Oh, that same ole thing!"

August activities went very well, thanks to all of you.

A special invitation to all of you and

your families to attend the September meeting, if has been planned especially for the ladies. So join us for a good program and some cake.

Eldon and I also wish to take this means of inviting all of you to drop by the Lewis QTH, 2018 West Uintah here in Colorado Springs on Sunday, September 12, for an eyelash QSO in honor of our 25th wedding anniversary (which took place September 11, 1946 in Stuart, Iowa. Your presence (not presents) is requested.

WAØDGL, Larry Lewis and XYL WBØCAL, Bonnie and WAØMNM, Linda and Jim Vidmar and Jerry also extend an invitation for you to join us all on this happy occasion. Any time between the hours of 2 and 5 p. m.

---73, Rosie

More 'Rosie's Reportings'

(Continued from Page 3)

is anything the club can do, let us know.

--rr--

Dick Thompson, WBØDUL, does his own thing--by a trip to the high country with a bow and arrow during the season allotted for it.

--rr--

Allen Monderer, WAØZOH, and his family are enjoying their new car/bus (are you mobile yet, Allen?).

--rr--

WBØCZJ, Larry Lewis, got back his original call of WAØDGL--he, along with other PPRAA members in Pueblo coordinated the promotion of the State Fair in which people walked, rode bicycles and horses from Pueblo to Denver. Indian raids and other events occurred along the way. That day--

weather-wise--was one of the hottest of the summer.

--rr--

WAØYMP, Maury Wunderlich, and XYL attended the Colorado Code Net picnic August 8 at Idaho Springs, Colo.

--rr--

Understand that the son of Art Mayer, WAØAEH, had to undergo some surgery. Hope that he has recovered OK and Art and his family can thoroughly enjoy their vacation.

--rr--

Don't forget that if you want call plate on your car for 1972, the special application form has to be in Denver by September 15. I'll have some of the forms at the September meeting in case you need one. Remember that for 1972 they cost \$2 plus whatever the regular license fee for your car is.

79 Enjoy PPRAA Picnic In Black Forest Area Aug. 8

By Rosie Lewis, WAØMNL

Seventy-nine people and two dogs followed the signs that pointed to another FB PPRAA Picnic. Sunday, August 8, was the day to enjoy the food and fellowship at the Black Forest picnic area. With a 30 per cent chance of rain predicted, we rated a perfect day.

Folks began arriving at 3 p. m. and were told to go through the crooked gate and up the creek--there awaiting them were hot dogs and hamburgers to complement the food prepared by the gals of PPRAA. The only complaint heard was from WØGCH, George Kowalski, who claims he was given a rubber hot dog (He sure bit into that one). 122 hamburgers and 73 hot dogs and four cases of pop were consumed.

The usual ball game was held with all ages getting equal treatment (some of the older ones thought they should get six strikes). The game got pretty wild and I wondered if umpire Al Thompson was going to last the game due to QRM, especially from the spectators.

Who won?? Don't know. I know one time an SOS was sent out via 2 meter FM for more players, so someone must have been losing. And we all shuddered when WAØDCL, Larry, tumbled into home plate. He was counted out--some one said his pride was hurt but it didn't look like he landed on his pride.

Xmtr hunt was held on 2 meter AM, WAØSVL, Dave Wilson, was the rabbit. He gave the amateurs a good hunt and a test of the antennas they'd been perfecting. According to Doug the first to arrive was WØLKD, Bill King--next was the Sheriff--we don't know what kind of rig he was using or what frequency he found Doug on (just kiddin'). Second place winners were the DGL/Lewis-Vidmar team.

Admst all the QRM the rabbit was not sure if he should come out of his hole, but he did and joined the rest of the gang back at the picnic for a fillup before heading home.

The forethought of WAØLVL, John Kester, provided a generator for lighting and the party broke up at 10 p. m.

The club's appreciation to the Kester family--Smitty--Paul King and XYL--Vidmars and Eldon and to all the other fine folks who contributed to make the affair an excellent one.

-o-o-o-o-

A man asked a friend why he was always so slow and deliberate.

"I asked my grandfather the same question once," he replied, "and I'll never forget his answer: 'Son, it just doesn't pay to be in a hurry. You always pass up more than you catch up with.'"

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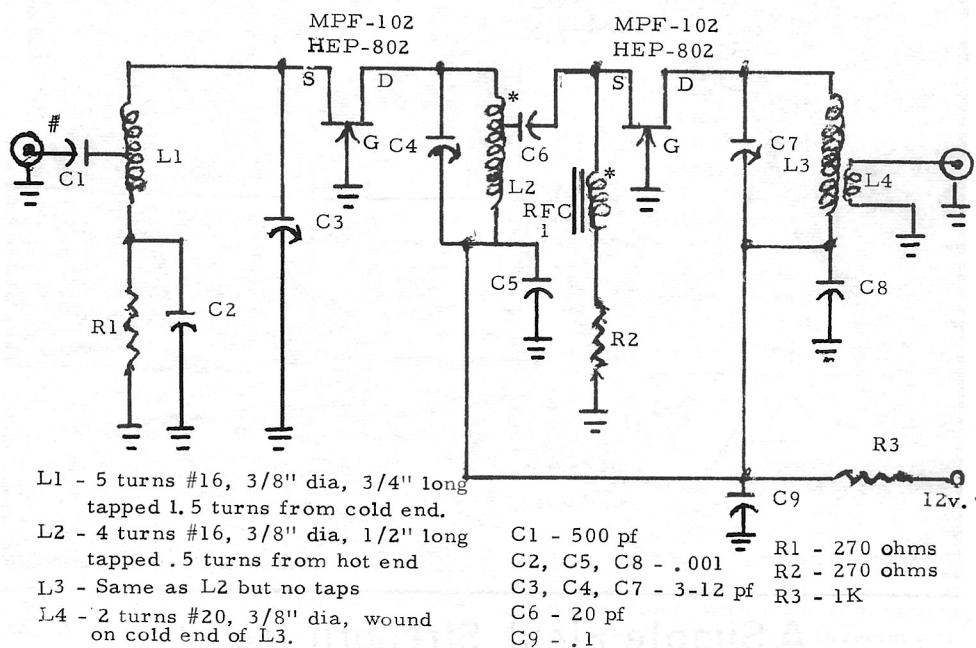
By Doug Wilson, WAØVSL

The editor of the Central California Radio Council "Circle," which has been reprinting the series on "Understanding Transistors" by Jim White, WB6RAG from the Tulare County (Calif.) Radio Club "Grid Leak" and which in turn has been the source from which Zero Beat's reprinting has come, states that Lesson 25 of the series has not yet appeared in Grid Leak--hence neither Circle or Zero Beat is able to supply the readers with this lesson until it is printed first by Grid Leak.

In place of this lesson, Zero Beat is printing the schematic for a 2 meter FET preamp submitted by PPRAA member Doug Wilson, WAØVSL.

Doug states that this is in use at his station and it will give an average gain of 12 db with low noise.

He states that two diodes may be used at the point marked # for protection and at the points marked * (the tap on L2 and the values of C6 and RFC1) builder and user should experiment for the best results.



Three PPRAA Members Provide Communications For Pikes Peak Marathon

Bill King, WØLKD, Doug Wilson, WAØVSL and George Kowalski, WØGCH, provided the communications for the Pikes Peak Marathon August 15.

Bill and Doug worked from the top of the Peak and George provided communications from the start and ending of the Marathon at the foot of the Peak.

"Communications, as usual, were successful," reported George. "However we found too late that we could have used cycles and spotted stations along the route of the Marathon, which would have resulted in a more complete coverage in communications in case any participant had an accident or needed a bit of help of some kind enroute."

-o-o-o-o-

"We sometimes wonder what the future holds for amateur radio in the way of equipment. Being an old timer and remembering the various components and completed equipments, and seeing the radical reduction taking place through the use of Integrated Circuits and other developments, makes one wonder if a kilowatt will soon be available in a Dick Tracy wrist watch size. Adding machines are now made with the entire mechanism on one single chip. A complete decimal counter has been available for a lone time on a single chip. Could be that one day we will have the entire receiver in one chip; then if anything goes wrong we will really have to replace the entire unit!"

From "Hanna Hints" by W8QUR
In the ARNS Bulletin

Participate In Exercise

(Continued from Page 1)

Scouts, who acted as 'victims' of the 'crash.'

"I walked about 10 miles at an altitude of 13,000 feet and helped 'dress a lot of wounds' as well as help with the communications.

"Dr. Vargo of Penrose Hospital in Colorado Springs was also one of the participants in the exercise."

-o-o-o-o-

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-o-o-o-o-

Don't miss either of the next two meetings. You'll miss some good entertainment at one and a chance to elect new PPRAA leaders at the other!

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A Simple Field Strength Meter

By Bob Shriner, WA0UZO

From the Pueblo Ham Club "Grid Leak"

I have noticed that many of the newer hams, and some of the older ones, also, do not have a Field Strength Meter.

You may ask what you need with a Field Strength Meter. Well, I'm darned if I know, but I find them awfully handy for checking to see if my transmitter is putting out, or for the front to back ratio of an antenna, and so forth.

Inasmuch as they are easy to build, why not make up one?

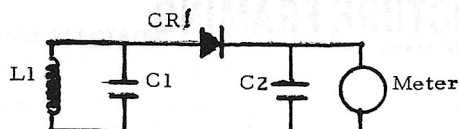
The values given are for the 2 meter band and are not at all critical.

Any old meter will work, 1 ma or so is fine. If you don't have a spare meter, use your ohm meter, if you don't have an ohm meter, run down the cheapest 1 ma meter you can get.

For L1, pick up a hank of copper wire of whatever size you can get hold of and wind about four turns around your finger (don't forget to remove the finger before soldering the coil into the circuit). C1 is about five picofarads. If you don't have a little capacitor, take a couple of chunks of insulated wire about 3" long and twist them together--bare the two ends and solder it into the circuit and you've got about a five picofarad capacitor. C1 is any old germanium diode you can get--an IN34 or IN 69 is fine. Cq is about an .001 mfd or twist some wire together as mentioned for C1--use about a foot--or if this is too much trouble, just leave it out entirely.

The antenna can be any old piece of wire you happen to have --any size--any length. Four or five inches of coat hanger works good.

For a box to put the works in, the sky's the limit, or if you just can't find a box, forget it and solder the whole works on the back of the meter and prop it up on a shelf.



-O-O-O-O-O-O-O-

Two hippies were walking down the street and met a Catholic priest with his arm in a cast and sling.

"Hey, man, what happened to you?" asked one of them.

The priest explained that he had slipped in a bathtub, fallen and broken his arm.

The hippie said "Oh," and the two walked on.

A few feet further, one hippie turned to the other and asked: "Say, man, what's a bathtub?"

"How should I know," said the other. "I'm not a Catholic."

WØHWH-24 Years Ago

Recently while rummaging through some old radio material, your editor ran across the picture which appears on this page, taken while operating on 10 meter phone under the Philippine call of KALACF in 1947 and 1948.

Then, as a first lieutenant, assigned to Hq. Philippine Command, U. S. Army, as Press Officer for the Command, the present WØHWH (then with his original U. S. call of W7HUI), had the station in the headquarters area a short distance from Manila.

Equipment was a BC610E transmitter, with 614 speech amp and control unit, a Hallicrafter SX28 receiver and a "home brew" patch panel and phone patch. Antennas were an inverted "stacked V" (each leg ten wave lengths long on 10 meters) and a three element "home brew" 10 meter beam.

During some 18 months of operation some 50 countries and some 500 stations (not counting "repeats") were logged at the station.

The station was also considered as an official emergency station, to take over military traffic in case the regular Army station near Manila should be knocked out due to insurrection or sabotage--KALACF would then have handled all military traffic from the headquarters to the U. S. and other headquarters in the Pacific area.

That was a delightful period of 10 meter phone operation, one which has not been duplicated on that band since that time.



"That's all he's said since his father got him a code record."

(From the "W6SD Carrier")

Omega—May Return 160 Meters To Hams

(From "Hanna Hints," by Ralph Hanna, W8QUR, in the "Amateur Radio News Service Bulletin.")

"A new system of navigation has been developed called Omega. This system should have some interest to hams, not for just the technical aspects but because there is hope that eventually it will completely replace Loran. If this ever happens, maybe we will get back all of the 160 meter band.

"The Omega system will have only eight stations to cover the entire world. Four of these stations are now in operation, one at a temporary location. The interesting thing to us is the operating frequencies which will be 10.2, 11.33 and 13.6 kHz.

"All stations will transmit the three frequencies and identification will be the timing sequence and difference in pulse length. In addition to the three navigational frequencies, each station will be assigned two unique frequencies that can be transmitted the remainder of the 10 seconds when it is not transmitting the basic navigational pulses. The system may use these unique signal frequencies for such additional navigational information as station identification, frequency standard, time standard and internal communication.

"In the Loran system, the time difference between the arrival of the pulse from two transmitters was measured and this gave a line of position. The Omega system measures the difference in phase of the two signals. Since there are many places that would have the same phase difference, many 'lanes' are generated. By using the three frequencies, lanes that are 8 miles wide, 24 miles and 72 miles are generated.

"It can be seen that with this system a navigator would have to have a fair idea of where he is. This isn't too hard, because he should be checking regularly and plotting his dead-reckoning position. If he had been doing this, he would know exactly which lane he is in and could quickly identify which 8-mile lane he is in.

"Right now there is a station in Forestport, New York, which will be replaced with one in LaMoure, North Dakota. The New York station is running at reduced power. The other operating stations are listed as medium power and are located in Hawaii, Trinidad and Norway.

"All stations will have 10kw radiated power upon completion. These antennas are enormous and have only about 0.08 ohms radiation resistance, so you can see the base current will be over 300 amperes. The one in Trinidad has only 0.02 ohms and 672 amps. The other stations will be located in Japan, Argentina, Australia and LaReunion (Indian Ocean).

New Germany Prefixes

For our "DX hound" readers who may occasionally work into Germany, and who may not have seen the following list of new Germany prefixes in the March 1971 issue of 73 Magazine, we are printing the following list as it was reprinted in a recent issue of the "W6SD Carrier" of the San Fernando Valley Radio Club in Van Nuys, California. Following is a breakdown of all current Germany call signs and their allocations.

CALL	ALLOCATION	LICENSE CLASS
DA1AA - DA2ZZ	Amateurs of Foreign Armed Forces	A + B
DA4AA - DA4ZZ	Amateurs of Foreign Armed Forces	C
DB1AA - DB9ZZ	German Amateurs	C
DC0AA - DC0EZ	German Amateurs	C
DC0FA - DC0JZ	Foreign Amateurs	C
DC0KA - DC0ZZ	German Amateurs	C
DC1AA - DC6ZZ	German Amateurs	C
DC7AA - DC7ZZ	German Amateurs in West Berlin	C
DC8AA - DC9ZZ	German Amateurs	C
DF1AA - DF9ZZ	German Amateurs	A + B
DJ0AA - DJ0ZZ	Foreign Civilians	A + B
DJ1AA - DJ9ZZ	German Amateurs	A + B
DK0AA - DK0ZZ	German Club Stations, Special Call Signs	B
DK1AA - DK9ZZ	German Amateurs	A + B
DL0AA - DL0ZZ	German Club Stations, Special Call Signs	B
DL1AA - DL6ZZ	German Amateurs	A + B
DL7AA - DL7ZZ	German Amateurs in West Berlin	A + B
DL8AA - DL9ZZ	German Amateurs	A + B

Three More Join PPRAA

Three persons became members of the PPRAA at the August meeting:

Robert Stamp, WN0FJC

Gerald Farkasofsky, WA8LZJ/0

Cliff Sides (Associate)

At least seven or eight persons (perhaps more) are carrying PPRAA membership cards with "1972" on them---a reminder to others that the time for a new year and a new payment of dues to continue membership in the club is not too far away.

W0PB Appreciates 'Concern'

A letter to Zero Beat from Harry Leger, W0PB, whose car was stripped of his GE TPL and tools and accessories in the basement garage of the Antlers Hotel the morning after the convention thanked Zero Beat and the club for the concern about his loss.

He said he believed he would get an insurance payment for the rig (nothing more) and was very happy he didn't have more equipment in the car as he did last year at Estes Park.

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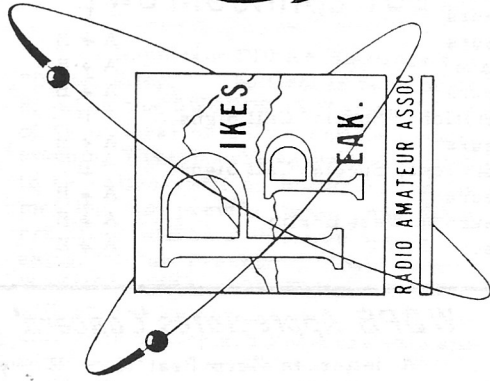


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COLORADO SPRINGS, COLORADO

September 1971

15 Nominated By Committee As Candidates For Board Of Directors

A total of 15 candidates for the four vacancies on the PPRAA Board of Directors has been named by a nominating committee headed by PPRAA President Rosie Lewis, WAØMNL. Rosie took over the task when Art Mayer, WAØAEH, whom she had named to head the committee, was unable to handle the assignment due to the sudden illness of his son.

Eligible PPRAA members selected by the nominating committee to be considered by the voting members at the annual meeting are:

Frank Crow, WØHWH
"Doc" Cornell, WØMCT
Ida Demario, WAØMTA
James DonCarlos, WØITU
Irv Ebel, WØKWV
Bob Koelling, WØMDZ
Allen Manderer, WAØZOH
Jim Irvin, WA7MRR/Ø

Chuck Myers, WAØZCS
Fred Palmbiad WØCYM
Harl Porter, K7CAN/Ø
Elmer Schladweiler, WAØWYX
Mint Tanner, WAØYTK
Darrel Vogt, WAØUGW
Mory Wunderlich, WAØYNT

Under the By-Laws of the PPRAA, Ed Pompea, KØUDG, Oak Stockton, KØROL, Dean Haynes, WAØPJH, and John Kester, WAØLVL, the four directors whose two-year terms are expiring, are also eligible candidates for re-election to the Board of Directors.

Additional candidates to be considered at the October 13 meeting may be nominated by voting members of the PPRAA --the method of such nomination is explained in an article in this issue.

FIRST CLASS MAIL